



**Department of Energy**  
Idaho Operations Office  
1955 Freemont Avenue  
Idaho Falls, Idaho 83401

April 1, 2004

Nicholas Ceto, INEEL Project Manager  
EPA Region 10  
712 Swift Blvd., Suite 5  
Richland, WA 99352

Daryl F. Koch, Acting Remediation Manager  
Waste Management and Remediation Division  
Idaho Department of Environmental Quality  
1410 North Hilton  
Boise, Idaho 83706-1255

**SUBJECT:** Transmittal of Evaluation of Tc-99 in Groundwater at INTEC: Summary of Phase I Results (Draft), ICP-EXT-04-00244, Rev. 0. – (EM-ER-04-077)

Dear Mr. Ceto and Mr. Koch:

Enclosed you will find copies of the *Evaluation of Tc-99 in Groundwater at INTEC: Summary of Phase I Results (Draft)* report. This report summarizes the results of the Phase I evaluation of the radionuclide technetium-99 (Tc-99) in the Snake River Plain Aquifer underlying the INTEC facility and surrounding area.

In May 2003, routine groundwater monitoring at monitor well ICPP-MON-A-230, located near the northern boundary of INTEC, indicated that Tc-99 was present in the aquifer at concentrations approximately twice the maximum contaminant level (MCL) for Tc-99 (MCL is 900 pCi/L). This was the first time that Tc-99 concentrations in the aquifer had been found to exceed the MCL.

An investigation was then performed during August-December 2003, to determine the source(s) of Tc-99 in groundwater. The investigation was performed in accordance with the Supplemental Work Plan for Tc-99 Evaluation in Groundwater (ICP/EXT-03-00029-Rev. 0), which is a supplement to the Monitoring System and Installation Plan (MSIP) for Operable Unit 3-13, Group 4, Perched Water (DOE/ID-10774). The enclosed report summarizes the tasks performed and the results obtained.

Please submit any comments you may have within 30 days of receiving this report. If you have questions or need additional information, please contact Rachel Hall at (208) 526-1661.

Sincerely,

A handwritten signature in cursive script, reading "Kathleen E. Hain", is positioned above the typed name.

Kathleen E. Hain, Project Manager  
Environmental Restoration Program

Enclosure

cc: M. English, IDHW, DEQ, 1410 N. Hilton, Boise, ID 83706  
R. Cummings, DOE-HQ, EM 441

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R. Hall (EM/ER), MS 1222

(1)

J. Cooper (INTEC), MS 1154

A. Kraupp, MS 1226

RECORD NOTES:

1. This transmits the Evaluation of Tc-99 in Groundwater at INTEC: Summary of Phase I Results (Draft), ICP-EXT-04-00244, Rev. 0 to the State and EPA.
2. R. Hall prepared this letter for K. Hain's signature.
3. This letter/memo closes CATS number N/A.
4. The attached correspondence has no relation to the Naval Nuclear Propulsion Program. Naval Reactors concurrence is not required.